



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STATE HOUSE STATION 17      AUGUSTA, MAINE 04333

DEPARTMENT ORDER

IN THE MATTER OF

GREAT NORTHERN PAPER INC.	)	SOLID WASTE ORDER
MILLINOCKET, PENOBSCOT COUNTY, MAINE	)	PROGRAM APPROVAL
SLUDGE UTILIZATION	)	
#S-021545-SB-A-N (APPROVAL WITH CONDITIONS)	)	NEW LICENSE

Pursuant to the provisions of 38 M.R.S.A. Section 1301 et seq. and 06-096 CMR Chapter 567, Rules for Land Application of Sludge and Residuals (effective December 23, 1989), the Department of Environmental Protection (the Department) has considered the application of GREAT NORTHERN PAPER INC. with its supportive data and other related materials on file and FINDS THE FOLLOWING FACTS:

1. APPLICATION SUMMARY

- A. Application: Great Northern Paper Inc.(GNP) has submitted a request for program approval for utilization of waste wood fiber residuals (pulp and paper sludge) generated at its Millinocket and East Millinocket operations.
- B. History: On September 4, 1992, the Department issued an experimental license to allow GNP to complete trial land applications of primary sludge for the purpose of determining agronomic benefit and establishing appropriate loading rates of the sludge. On June 29, 1995, Department Order #S-21424-SN-A-N, approved the agronomic utilization of primary sludge at the Maxwell site in Winn.
- C. Summary of Proposal: The applicant requests program approval to allow utilization of three waste wood fiber sludges generated at the Millinocket and East Millinocket operations. The primary sludge generated at the Millinocket (West) operation and the Recycle Fiber Plant (RFP), located in East Millinocket, is proposed to be landspread on agricultural fields to increase organic matter in depleted soils and to improve soil tilth. The primary sludge may also be utilized as a carbonaceous bulking agent at compost facilities.

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The co-dewatered secondary sludge generated at the East Millinocket (East) operation is proposed for silvicultural landspreading and composting applications to supply nutrients, increase soil organic matter, and improve soil tilth.

## 2. FACILITY CHARACTERIZATION

- A. Great Northern Paper Inc. is owned by Bowater Incorporated, a major producer of wood fiber products and the largest manufacturer of newsprint in the United States. Bowater owns facilities in South Carolina, Tennessee, Maine and Nova Scotia, Canada. Great Northern Paper Inc. owns paper mills located in Millinocket and East Millinocket, a recycle fiber plant located in East Millinocket, a lumber sawmill in Nashville Plantation and 2 million acres of woodlands.
- B. GNP West Operations papermill annually produces approximately 288,000 tons of specialty papers, directory paper, and newsprint. Wood pulp is produced on site from both mechanical and chemical processes. Mechanical pulp is produced from wood chips that are washed and passed between stationary and revolving plates in a disc refiner. Additional mechanical pulp is produced by the stone groundwood method at the East Operations mill and shipped, with recycle fiber pulp generated at the Recycle Fiber Plant by rail to the West Operation mill. Mechanical pulp constitutes approximately 55% of the fiber utilized for paper making at the West Operations facility. Recycled fiber makes up approximately 12% of the fiber used at the site. Chemical pulp is produced at the mill by chemical treatment of wood chips with magnesium bisulfite and constitutes about 23% of the fiber used. The remaining 10% of fiber used at the Millinocket facility is Kraft pulp purchased from external sources.

Wastewater from the West Operation receives lime neutralization, primary treatment, and secondary treatment at the company owned wastewater treatment plant located in Millinocket. The primary effluent coming into the 21 acre aeration-stabilization basin for secondary treatment receives nutrient addition of aqueous ammonia and phosphoric acid. Approximately 112,000 cubic yards of primary sludge containing 26% solids are generated at the West Operations facility annually.

No sanitary wastes are treated in the West operation system.

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- C. The East Operation Recycle Fiber Plant (RFP) produces approximately 130,000 tons of recycled paper pulp for use in GNP's East and West papermaking operations. About 182,000 tons of post-consumer newsprint and magazines are pulped annually using acid and alkaline digestion, screening, floatation and other mechanical processes to remove inks, clays and other contaminants from the processed recycled pulp.

The reject fiber stream is composed of short wood fiber, clay particles and ink solids. This waste stream is dewatered by means of polymer-aided flocculation followed by gravity thickening and screw pressing. Effluent from the dewatering equipment and other process waste streams from the Recycle Fiber Plant is discharged to the East Operation wastewater treatment plant where it undergoes secondary treatment. Approximately 114,000 cubic yards of Recycle Fiber Sludge are produced annually at 40% solids.

No sanitary waste is treated in the RFP system.

- D. The East Operation Papermill located in East Millinocket produces approximately 279,000 tons of newsprint and directory paper annually. Wood pulp is produced at the facility using the mechanical groundwood process. Recycled fiber from the RFP, . Sulfite pulp is supplied by the West Operation and purchased Kraft pulp.

The East Operations Wastewater Treatment Plant provides primary and secondary treatment for the groundwood mill, screen room and Recycle Fiber Plant Operations. After primary treatment, secondary wastewater receives nutrient additions of aqueous ammonia and phosphoric acid and are aerated in a 6 acre aeration basin. Secondary sludge is collected in two secondary clarifiers, combined with East Operations primary sludge and dewatered in four rotary screw presses to produce a co-dewatered cake containing about 32% solids. The cake consists of approximately 60% recycle sludge, 30% primary sludge and 10% secondary sludge (biological solids). The East Operations WTP produces approximately 182,000 cubic yards of co-dewatered sludge annually.

The mills' sanitary wastes are also treated in the East Operations WTP. Sanitary flows comprise less than 1% of the wastewater flowing into the system.

- E. Chlorine or chlorine containing compounds are not used in the pulp or paper making processes at Great Northern Paper. Only 10% of the pulp used at the Millinocket facility comes from a Kraft process, in which chlorine is used to

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remove lignins. This Kraft pulp is purchased from outside of the mill. The chlorinated lignins are removed as sludge at the Kraft mill before the pulp is shipped to the Millinocket facility. The Department finds that chlorinated lignins are not formed at the Millinocket mill.

### 3. RESIDUAL CHARACTERIZATION

- A. General: GNP waste wood fiber residuals are carbonaceous, non-flowing, non-putrescible sludge possessing low concentrations of nutrients and pollutants. Carbon to nitrogen ratios range between 25:1 to 100:1. Percent solids of the materials range from 25 to 40%.
- B. Nutrients: West Operations and RFP primary sludge possess low nutrient concentrations. Total nitrogen and phosphorous concentrations are below 1%. The East Operation sludge nitrogen concentrations range from .8 to 5% total nitrogen because they are a mixture of secondary and primary sludge. Magnesium and calcium concentrations are moderate.
- C. Heavy Metals Results of standard chemical analyses of the applicants sludge indicate the regulated heavy metals are within the limits in Department Regulations with the exception of nickel which has periodically exceeded the Department's standard of 200 mg/kg in the West Operations sludge.

Plant maintenance records and sludge analysis results from the West Operations mill indicate the high nickel levels are produced from periodic wash down operations of process boilers exhaust ducting. Heavy oil, which is burned in plant boilers, contributes nickel to the deposits in the boiler air preheaters and ducts. Nickel is then concentrated in sludge during subsequent wash down, which occurs at least once annually for each boiler.

The applicant proposes to monitor scheduled wash down cycles for each process boiler on a daily basis, and will isolate any West Operations sludge produced during those periods and analyze representative samples for nickel concentration. Depending on analytical results, sludge produced during these wash down events will be either landfilled or blended with low nickel sludge. All sludge proposed for land application will be within the permissible level of 200 mg/kg for nickel before being transported to any site.

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- D. Priority Pollutants The applicant has performed priority pollutant scans for West Operation and Recycle Fiber Plant sludge. Toluene and total xylenes were detected, but at residual concentrations less than risk-based soil screening standards.
  
- E. Dioxin Great Northern Paper Inc. sludge is subject to initial testing requirements for Polychlorinated Dibenzo-P-Dioxins (PCDD's) and Polychlorinated Dibenzo Furans (PCDF's) because it is a pulp and papermill sludge. The applicant has performed PCDD and PCDF analysis on the West Operation and RFP sludge. Results indicate the total concentration of 2,3,7,8 TCDD equivalents is less than 27 parts per trillion and therefore exempt from Department Regulations Chapter 567, Section D-3.b. The applicant proposes to test the sludge for PCDD and PCDF annually given the fact that chlorinated compounds are not used in the papermaking process at the Millinocket facility.
  
- F. Pathogens No human wastes are treated in the West Operation and RFP wastewater systems. The East Operation wastewater treatment plant receives the sanitary wastewater flow from the East Operation mill. Pathogen monitoring performed on the East Operations co-dewatered sludge indicate the presence of fecal coliform and salmonella organisms exceeding EPA Part 503 Class A standards. All samples met EPA Class B standard for fecal coliform. Due to the presence of human pathogens, the applicant has proposed silvicultural landspreading and composting as utilization options.
  
- G. Vector Attraction and Odors Due to the carbonaceous character of the sludge proposed for utilization, vector attraction reduction practices are not required. Potential formation of odorous sulfur compounds in West Operation sludge has been identified by the applicant if the materials are stockpiled for extended time periods. The applicant proposes to limit stockpile to seven days at any site receiving West Operations sludge.
  
- H. Chlorinated Lignins: The Department finds that prior to dissolving in 1991, the appendix A steering committee did not reach consensus on an appropriate analytical method for detection of chlorinated lignins, that EPA has not established a standard protocol for analysis of chlorinated lignins, and that the GNP processes are unlikely to generate chlorinated lignins in the residuals proposed for utilization.

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- I. The Department finds that the applicant has adequately demonstrated the residuals are of a consistent quality and that the residuals are suitable for beneficial agronomic utilization.

#### 4. RESIDUAL SAMPLING AND ANALYSIS

The applicant proposes to sample and analyze each residual on a quarterly basis. The applicant proposes to perform the analysis for nutrients and heavy metals in accordance with Chapter 567 Section B-1.a and to include arsenic, selenium, molybdenum and total sulfur. The applicant anticipates the utilization of approximately 15,000 yards of West Operation and RFP sludge in 1995 and state that the proposed quarterly monitoring for each waste stream to be adequate to represent the anticipated volume of material to be utilized.

The Department finds that the proposed analytical parameters and frequency of residual monitoring are adequate for the volume of material currently proposed for utilization. Ongoing monitoring frequencies should be as proposed, or one analysis per 4,000 cubic yards of residual utilized, which ever is more frequent.

#### 5. RESIDUAL UTILIZATION

The applicant proposes to utilize the sludge in following manner: agricultural landspreading, silvicultural landspreading and compost bulking material. The following are descriptions of each of the proposed uses:

##### A. Agricultural Landspreading

- (1) Use: The West Operation and RFP primary sludge is high in carbon and low in nutrients. The applicant proposes to apply West Operation and RFP primary sludge to agricultural land to bind residual nitrogen which can exist on cropland after harvest of some crops. The sludge will also increase soil moisture holding capacity, improve soil structure and enhance the environment for beneficial soil organisms. The materials can also provide some calcium and magnesium which are plant nutrients. Due to the presence of pathogens, no agricultural landspreading is proposed for the East Operation sludge at this time.
- (2) Management and Permitting: The applicant will select sites based on the requirements for organic matter at each site. The applicant proposes to apply the sludge in rotation years until a target organic matter of 10% is achieved. The

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applicant proposes to manage the site in accordance with Chapter 567, Section B-3. The loading rate will be limited to a maximum of 25 tons/acre/year (dry weight) to achieve an increase of soil organic matter of approximately 1% per year.

After receiving program approval, the applicant proposes the sites be permitted in accordance with the Permit-by -Rule procedure set forth in Chapter 567, subsection E.2 This subsection is specific to land application of woodash. However, the Department finds that this licensing approach is appropriate since the risks posed by utilization of primary paper sludge do not vary with site conditions.

The applicant proposes to maintain the following set backs at primary sludge agricultural utilization sites:

Surface water	25 feet
Drinking water Wells	300 feet*

\*75 feet with well owner approval

The applicant proposes to land apply the primary residuals over sand and gravel aquifers when used for nitrogen management and soil organic matter enhancement. The Department finds that restrictions on spreading of residuals over sand and gravel aquifers is based upon concerns of nitrogen leaching to groundwater. The Great Northern Paper primary sludge have low (less than 1%) nitrogen and high carbon to nitrogen ratios and act to bind nitrogen when applied to croplands.

The Department finds that the Permit-by-Rule procedure in Chapter 567, Section E.2 is appropriate for licensing the land application of primary paper sludge on agricultural lands.

The applicant will develop a Joint Utilization Plan for use of the sludge with other regulated residuals, such as municipal wastewater treatment plant (MWTP) sludge and woodash. The Joint Utilization Plan must specify the management necessary for joint utilization to ensure compliance with state law and regulations, and must be approved by the Department prior to any joint utilization activities. The applicant and the generator of the other residual(s) will enter into the Joint Utilization Agreement, for Departmental approval, which will specify the

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responsibility of each generator to ensure compliance with applicable Departmental regulations. If the residual is to be co-applied with MWTP sludge, the residual will be regulated by the MWTP sludge generator license.

- (3) Stockpiling The applicant proposes to stockpile the RFP sludge for a maximum of six months prior to utilization. The West Operation sludge will be stockpiled for a maximum of seven days due to concerns of odor generation. Stockpile site will be selected based upon criteria in Chapter 567, Section B-4.a.

#### B. Silvicultural Landspreading

- (1) Use The applicant proposes to land apply East Operations sludge to the company's forest lands to supply nutrients and increase tree growth. The applicant has provided documentation that mixtures of primary and secondary papermill sludge applied to forest lands can provide benefits that last for years. These benefits include increased tree height, stem diameter and nitrogen concentration in tree foliage.
- (2) Management and Permitting The applicant will select sites based on the requirements for organic matter and plant nutrients at each site. The applicant proposes to manage the site in accordance with Chapter 567, Section B-3.

As with agricultural land spreading, the applicant proposes the sites be permitted in accordance with the Permit-by-Rule procedure of Chapter 567, subsection E.2. However, due to the nutrient content of the sludge, and the treatment of the sludge to a PSRP standard rather than a PFRP standard, the Department finds that the siting criteria and licensing procedures set forth in Chapter 567 subsection B are appropriate for silvicultural cultural utilization of the East operations sludge.

- (3) Stockpiling Stockpile sites will be selected based upon criteria in Chapter 567, Section B-4.a.

#### C. Compost Applications

- (1) Use The West Operation primary and East Operation Recycle sludge are carbonaceous residuals which can be used as bulking agents and blended with nitrogenous wastes in compost mixtures. The applicant has performed trials with the primary residuals and found them suitable for this use as proposed. The



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applicant proposes to distribute these two residuals to compost facilities which require carbonaceous bulking agents.

The East Operation co-dewatered sludge is currently proposed to be composted at the Dolby Landfill vicinity at a compost facility to be constructed, permitted, and operated by the applicant. The applicant is currently conducting feasibility trials at the company's Dolby Landfill.

- (2) Management, Storage and Permitting The primary residuals will be stored and handled in the same manner as the bulking agents at the compost facilities to which it is delivered. For sites with covered amendment storage, the residual will be delivered and stored as necessary. For sites with no covered storage, the amount of unmixed primary sludge on site at any time will be either two week's supply or 500 cubic yards, whichever is less.

Management of East Operation sludge composting will be detailed in a separate sludge composting facility license. The Department finds that the East operation co-dewatered sludge is suitable for composting at a type II compost facility licensed by the Department. It is incumbent upon the composting facility to get approval from the Department prior to composting this sludge

#### 6. TRAFFIC

Use of the residual at any site may increase vehicle traffic by one or fewer vehicle trips per hour during normal business hours.

#### 7. NOISE

Sludge utilization will not generate noise in excess of that generated during normal operations at any site or facility proposed to use the residual.

#### 8. ODOR

With the exception of stockpiled West Operation primary sludge, the residuals do not generate odors independently. The applicant has proposed to limit stockpiling of West operations sludge to seven days to avoid the generation sulfur compound related odors.

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9. SCENIC CHARACTER

No permanent structures are proposed to be constructed for residual use. In the case of silvicultural use, the applicant states that accumulation on vegetation will create a temporary unsightly condition which will be alleviated by precipitation, wind action and eventual soil assimilation.

10. EROSION CONTROL

Application of the residuals onto cropland and forest land will increase organic matter and water holding capacity of the soils, thus acting to reduce soil erosion at the sites. Other than that related to normal farming practices, no soil disturbance is proposed with this activity.

11. UTILITIES

No utilities are proposed to be installed at any utilization site. Use of the sludge at any utilization will not impact existing utilities.

12. FLOODING

No sludge is proposed to be stockpiled in a 100-year floodplain. Land application may occur within a 100 year flood plain and will occur in accordance with accepted agricultural practices.

13. CONTINGENCY

Any residual not meeting Departmental quality standards for utilization will be disposed at the company's Dolby landfill.

14. FINANCIAL AND TECHNICAL ABILITY

The applicant estimates that the cost of operating the land application program to be approximately \$700,000 for utilization of the full 200,000 yard of material generated annually. The applicant has submitted the 1994 annual report for Bowater Inc. which indicates the company's total assets in excess of \$2,851,000,000.

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The sludge utilization program will be managed by Great Northern Paper. The applicant has utilized the technical expertise of the University of Maine Cooperative Extension, the Cooperative Forestry Research Unit and the Department of Forest Management in developing the land application proposals. The applicant has worked with Woods End Research, a composting consultant in development of the composting proposals. The applicant has demonstrated its technical ability to comply with Chapter 567 on its pilot projects.

BASED on the above Findings of Fact, and subject to the conditions listed below, the Department makes the following CONCLUSIONS:

1. The proposed project will not pollute any water of the state.
2. The proposed project will not contaminate the ambient air.
3. The proposed project will not constitute a hazard to health or welfare, provided that the sludge generated during periods of boiler wash down will be isolated and either landfilled or blended with low nickel sludge to meet Department nickel concentration limits; provided land application of secondary sludge are licensed under Chapter 567, subsection B, and provided the sludge is analyzed for the standard parameters quarterly or once per 4000 cubic yards utilized whichever is more frequent.
4. The proposed project will not create a nuisance.
5. The applicant has the financial capacity and technical ability to develop the projects in a manner consistent with State environmental standards.
6. The applicant has made adequate provisions for traffic movement of all types into, out of and within the sites.
7. The facilities will fit harmoniously into the existing natural environment and will not adversely effect existing uses, scenic character, air quality, water quality or other natural resources in the municipalities or neighboring municipalities.
8. The facilities will be located on soils types suitable to the nature of the undertaking and will not cause an unreasonable erosion of soil or sediment nor inhibit the natural transfer of soil.

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9. The facilities will not pose an unreasonable risk that a discharge to a significant groundwater aquifer will occur, and
10. The activities will not unreasonably cause or increase the flooding of the area or adjacent properties nor create an unreasonable flood hazard to any structure.

THEREFORE, the Department APPROVES the above noted application of GREAT NORTHERN PAPER INC, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations:

1. The Standard Conditions of Approval, a copy attached as Appendix A.
2. The applicant must analyze the sludge as specified in Department Regulations, Chapter 567, Section B-1(a) at the following frequencies: Quarterly for each sludge type or one analysis per 4,000 cubic yards of residual utilized, which ever is more frequent. Analyses parameters and frequency will apply to all sites licensed previously by the Department for the land application of the sludge.
3. A report summarizing an annual tabulation of the volume of paper mill sludge delivered to utilization sites, the actual application rates, dates of delivery, as well as the results of sludge analyses for each calendar year must be sent to the Department by January 31st of each following year, in accordance with Chapter 567, Section B-5.
4. Land application of GNP sludge, for the purposes of soil organic matter enhancement, must not occur more frequently than once every two years at any one site. Application rates must be limited to no more than 25 (twenty five) tons/acre (dry weight) per year. No primary sludge may be applied to soils with an organic matter content greater than 10%.
5. West Operation sludge generated during periods of boiler wash down must be segregated and either landfilled or blended with low nickel sludge to meet Department concentration limits before being land applied.
6. Sites proposed for land application of secondary sludge with program approval must be licensed under Chapter 567, subsection B.

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7. The term of this Program Approval is five (5) years from the date of filing with the Board of Environmental Protection.

DONE AND DATED AT AUGUSTA, MAINE, THIS 22<sup>ND</sup> DAY  
OF AUGUST 1995.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: [Signature]  
Edward O. Sullivan, Commissioner

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES.

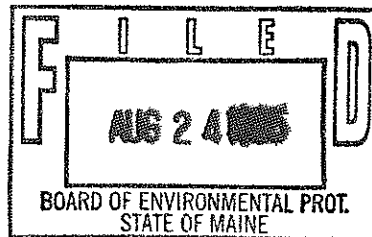
Date of initial receipt of application: 6/21/95

Date of application acceptance: 7/7/95

Date filed with Board of Environmental Protection

This Order prepared by Bill Sheehan, BHMSWC.

OBSDO454/sjm



## Appendix A

### SOLID WASTE LICENSE STANDARD CONDITIONS

STRICT CONFORMANCE WITH THE STANDARD AND SPECIAL CONDITIONS OF THIS APPROVAL IS NECESSARY FOR THE PROJECT TO MEET THE STATUTORY CRITERIA FOR APPROVAL. VIOLATIONS OF THE CONDITIONS UNDER WHICH A LICENSE IS ISSUED SHALL CONSTITUTE A VIOLATION OF THAT LICENSE, AGAINST WHICH ENFORCEMENT ACTION MAY BE TAKEN, INCLUDING REVOCATION.

1. This order is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed to by the applicant. Any variation from the plans, proposals and supporting documents is subject to the review and approval of the Board or the Commissioner prior to implementation.
2. The applicant shall secure and comply with all applicable Federal, State and local licenses, permits, authorizations, conditions, agreements, and orders, prior to or during construction and operation as appropriate.
3. The applicant shall submit all reports and information requested by the Board or Department demonstrating that the applicant has complied or will comply with all conditions of this approval. All preconstruction terms and conditions must be met before construction begins.
4. Advertising relating to matters included in this application shall refer to this approval only if it notes that the approval has been granted WITH CONDITIONS, and indicates where copies of those conditions may be obtained.
5. No person shall transfer a license for a solid waste disposal facility without first obtaining Board approval for the transfer of the ownership of the solid waste disposal facility. For a solid waste disposal facility, the Board, at its discretion, may require that the proposed new owner of the facility apply for a new license or may approve the transfer of the existing license upon a satisfactory showing that the new owner can abide by its terms and conditions and comply with the provisions of 38 M.R.S.A. Section 1310-Q. Public notice shall be provided in accordance with Chapter 400.4.D of the Solid Waste Management Rules.
6. If the construction or operation of the activity is not begun within two years, this approval shall lapse and the applicant shall reapply to the Board for a new approval. The applicant may not begin construction or operation of the development until a new approval is granted. Reapplications for approval shall state the reasons why the development was not begun within two years from the granting of the initial approval and the reasons why the applicant will be able to begin the activity within two years from the granting of a new approval, if granted. Reapplications for approval may include information submitted in the initial application by reference.

7. If the approved development is not completed within five years from the date of the granting of approval, the Board may reexamine its approval and impose additional terms or conditions or prescribe other necessary corrective action to respond to significant changes in circumstances which may have occurred during the five-year period.
8. A copy of this approval must be included in or attached to all contract bid specifications for the development.
9. Work done by a contractor pursuant to this approval shall not begin before the contractor has been shown by the developer a copy of this approval.
10. All solid waste disposal facilities are required to accept only solid waste which is subject to recycling and source reduction programs at least as effective as those imposed by State law.
11. No solid waste facility licensee shall knowingly hire as an officer, director or key employee, or knowingly allow to acquire as equity interest or debt liability interest, any person having been found guilty of a felony or of a violation of environmental law or rules without first obtaining the approval of the Board.
12. Whenever any lot of land for solid waste disposal facilities is transferred by deed, the following shall be expressly stated in the deed:
  - a. The type of facility located on the lot and the dates of its establishment and closure.
  - b. A description of the location and the composition, extent, and depth of the waste deposited.

If asbestos-containing waste or asbestos-contaminated waste has been disposed on a site, the location coordinates must be identified (refer to Chapter 405).